

What Architects & Lighting Designers want from SSL

Dawn Hollingsworth, LC, IALD

“All the world’s a stage”

-Shakespeare

I want better lighting!

-Hollingsworth

SSL Products

- Solve lighting applications
- Create interesting environments
- Provide energy savings
- Provide cost/benefit value to clients

Hansacanyon is pure design and technology excellence. Form – uncompromising, extravagant and exciting; function – a brand new concept in water flow: an open, visible watercourse spout. And along the way, the water stream is illuminated and varies its colour from cool blue into a warm red according to temperature. The entire operation of the Hansacanyon is electronically controlled with sensor buttons. With its strict, unusually clear profile, Hansacanyon becomes even more: it becomes an object that throws an entirely new light on the interpretation of the water experience.



Graphic austerity encounters the vivacity of water. A fascinating play begins.



12



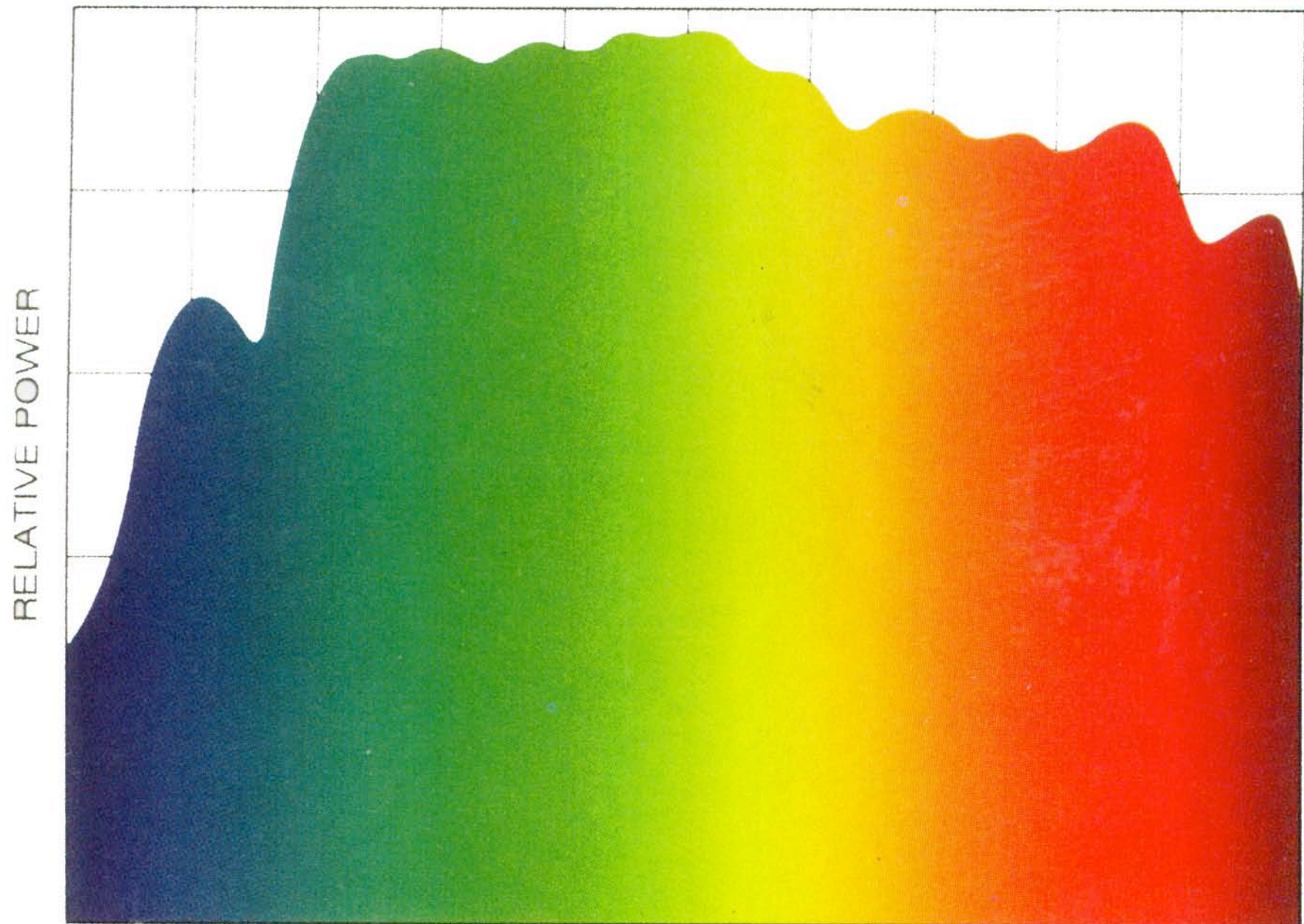
The open watercourse becomes illuminated from blue to red according to temperature.

With the flow of just five litres per minute, Hansacanyon is an expert in water-economy.

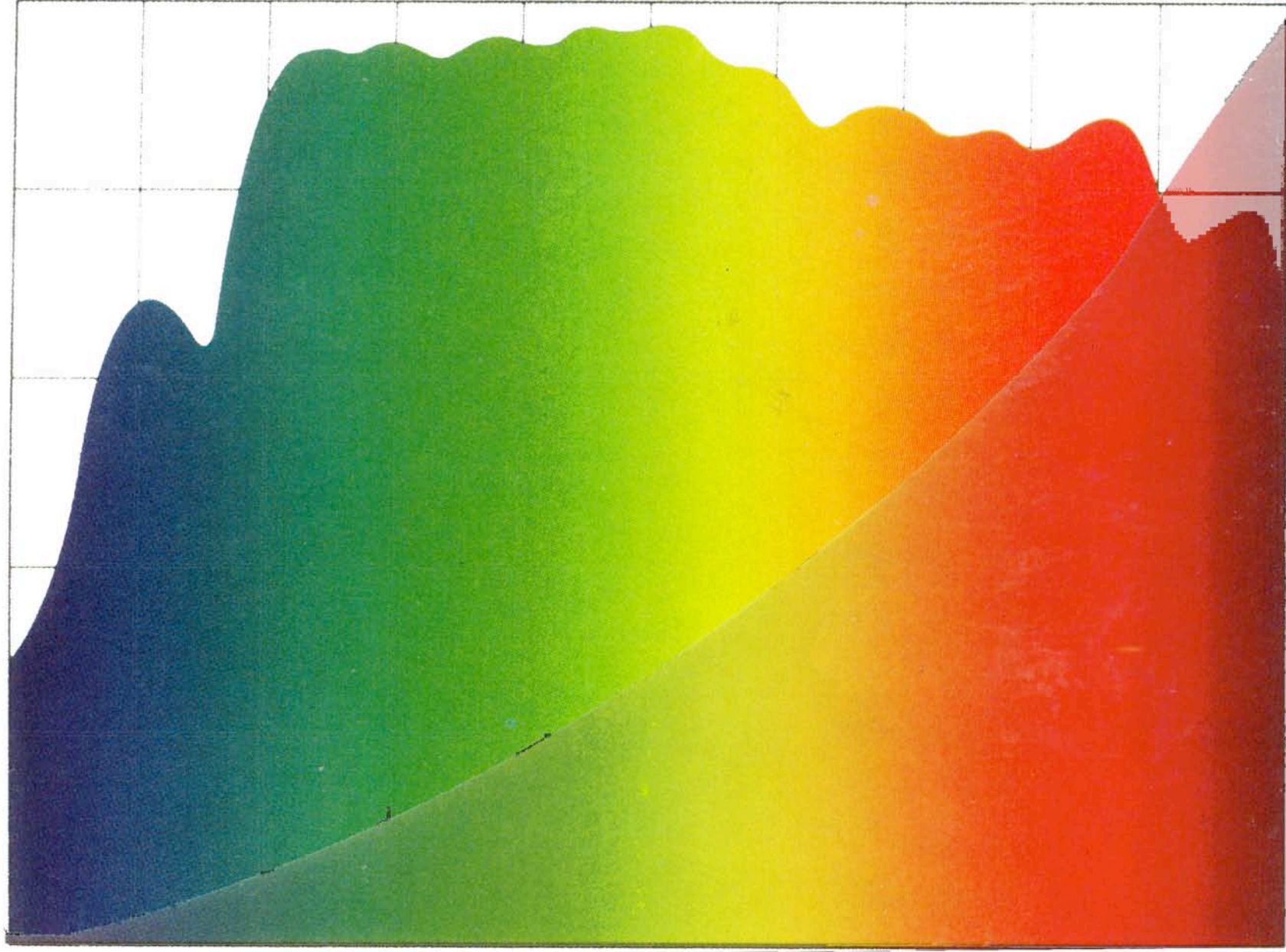
Light & Health

- Full spectrum for production of vitamin D
- High light levels required
- Higher CCT effective at circadian stimulation
- Light therapy counteracts SAD and stabilizing sleep cycles

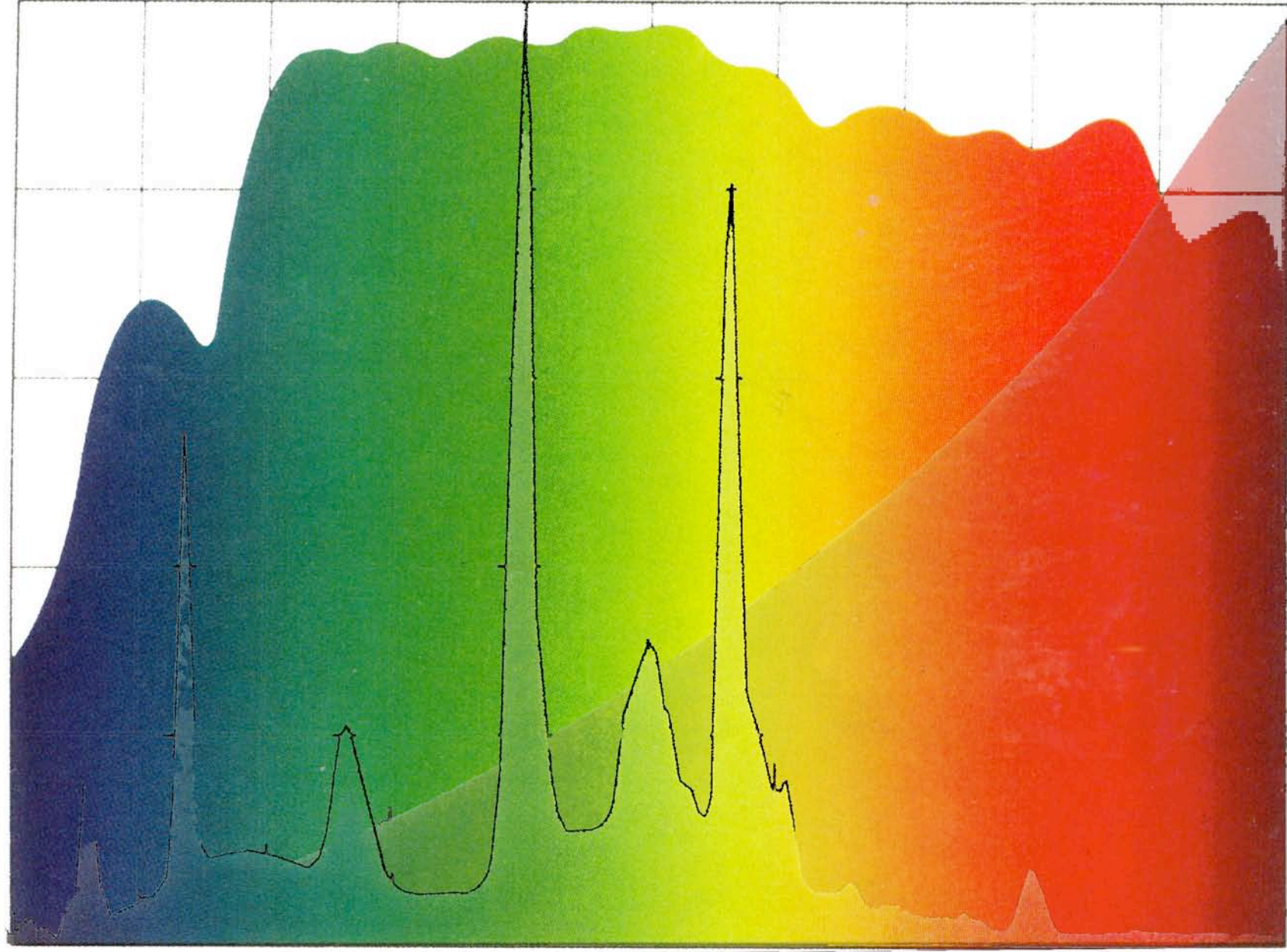
Noontime Sunlight

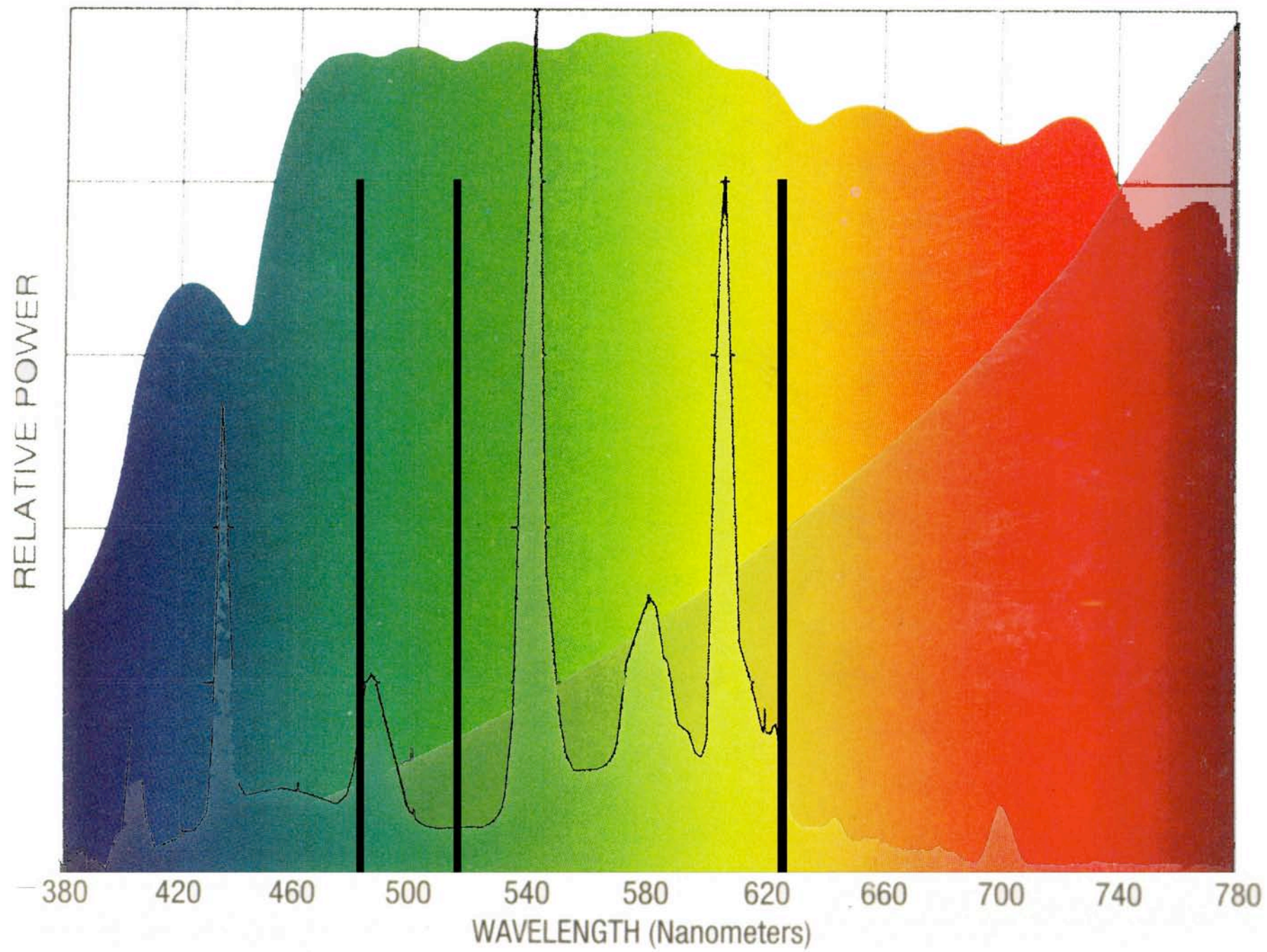


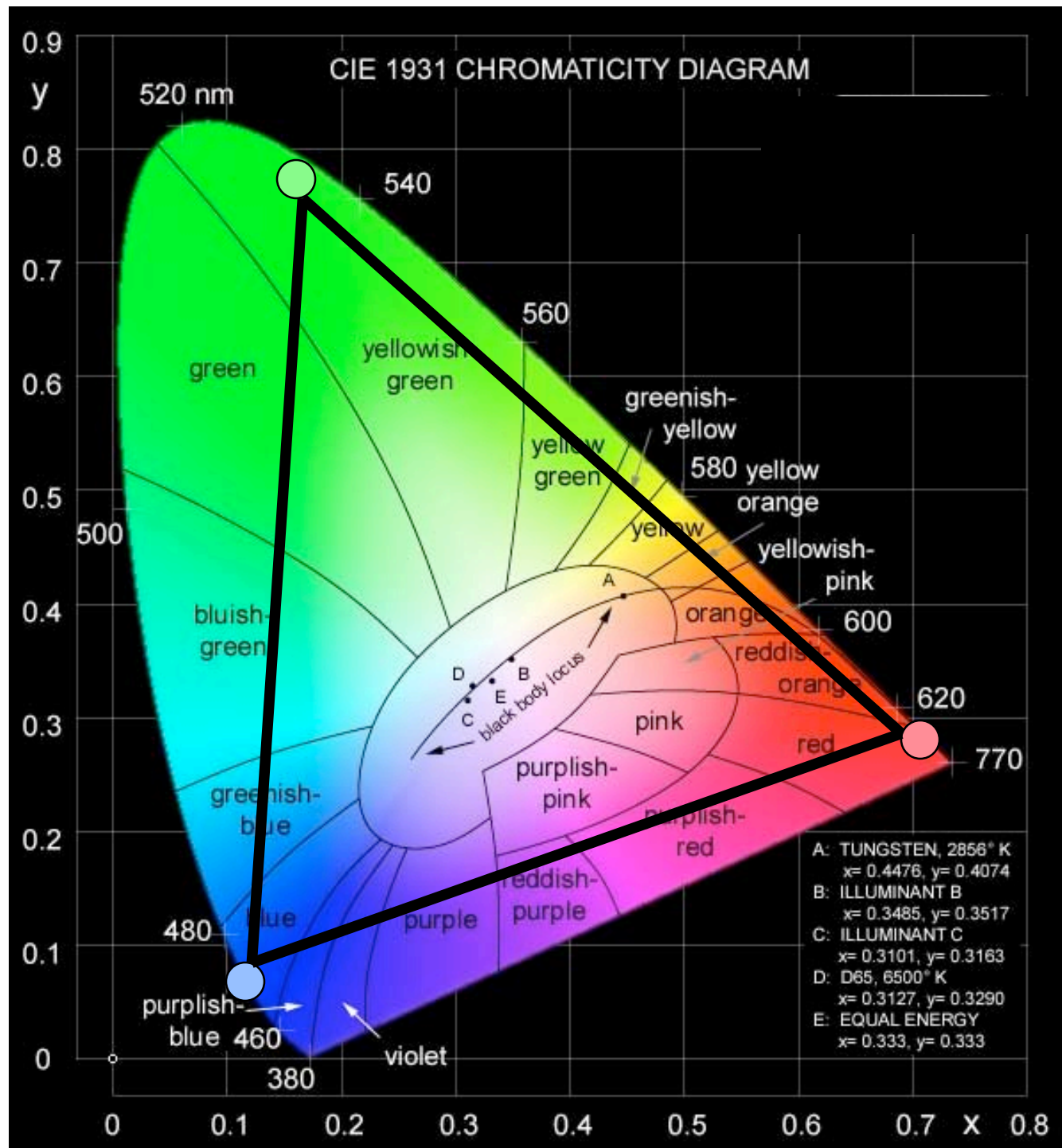
RELATIVE POWER



RELATIVE POWER









SSL, a Paradox

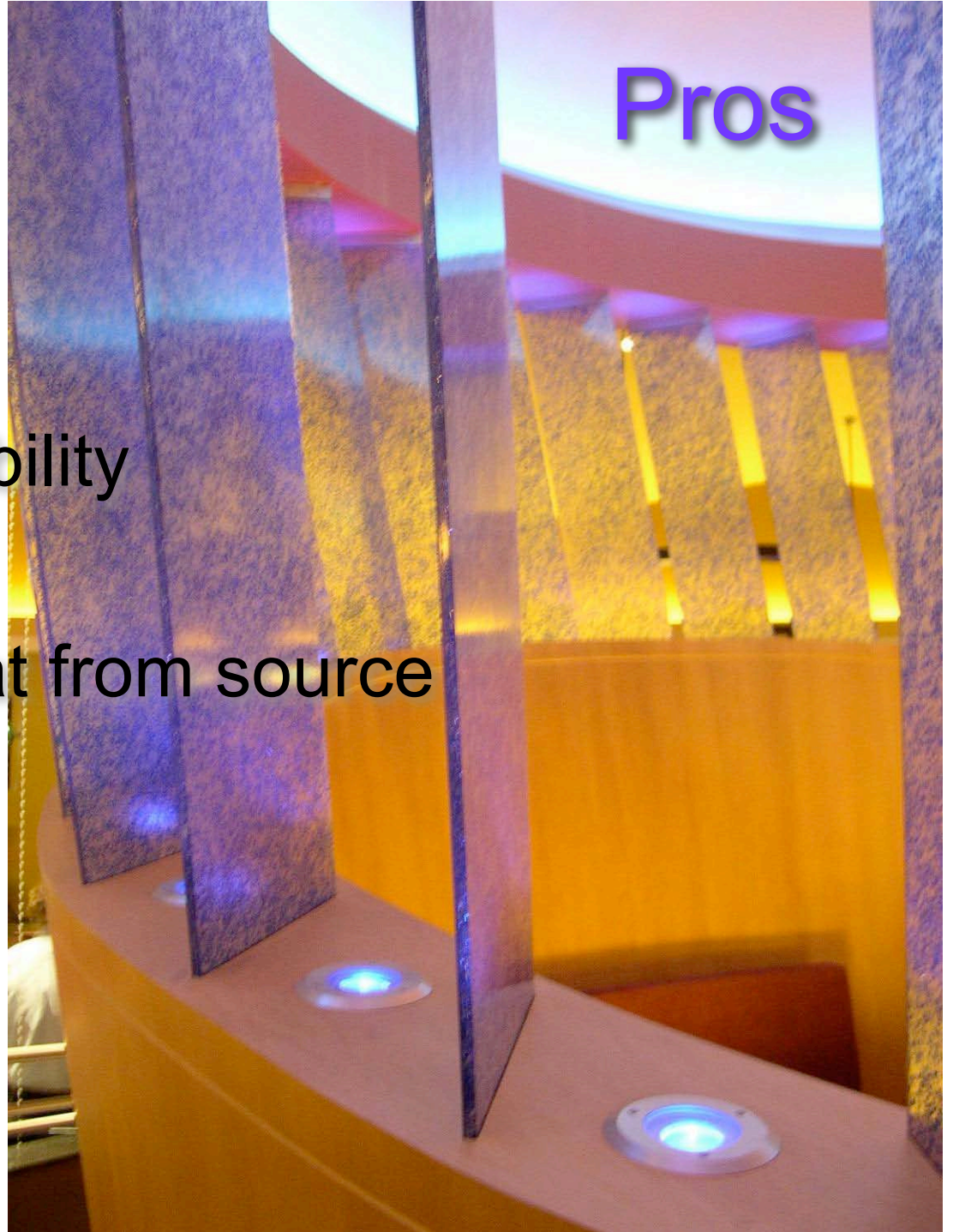
- It's linear (Not)
- It's a point source (Not)
- What is it?

GUEST REGISTRATION



Pros

- Size
- Color changing ability
- Life
- Lack of direct heat from source
- Energy savings







Cons

- Poor color rendering with white LEDs
- Lack of continuity between manufacturers regarding color (actual and marketing)
- Heat sinking architecture for higher output product
- Cost
- Technology confusion for buyer

Cons

- Lack of industry standardization
- Additional control costs
- Replacement costs
- Content costs for video driven systems

Product Issues

- Lack of full disclosure regarding power and efficiency
- Driver inefficiencies (including energy code conflicts)
- Lack of architectural integration and proper electrical connections

Product Needs

- Exterior
- White light product
- Amber, White LEDs in systems
- OEM replacement “lamps”
- Clear understanding of manufacturer’s capabilities

Color

- Consistency
- Modularity for maintenance
- Better mixture to white
- Color limitations (triangle)

Life

- Verifiable life expectancy
- Realistic information

Definition of Distribution

- Confined to niche applications
- Beam distribution is not point source, not linear
- More robust output
- Comparable data

Direct vs. Indirect

- Multiple shadowing from direct RGB systems
- More discrete color control from indirect

Where do
we go
from
here?



Build Bridges

- To the Design Community
- Engineering driven corporate strategies must meet market needs
- High tech must be easy to use